

MASONRY NOTES

1. **CONCRETE MASONRY UNITS:** SHALL BE HOLLOW, SUITABLE FOR BEARING WALL CONSTRUCTION. ALL BLOCKS SHALL CONFORM TO GRADE N UNITS GIVEN IN ASTM C90, LATEST EDITION, AND IN ADDITION SHALL HAVE LINEAR SHRINKAGE OF 0.065% MAXIMUM FROM SATURATED TO THE OPEN DRY CONDITION. MASONRY UNITS SHALL HAVE BEEN CURED FOR NOT LESS THAN (28) DAYS WHEN PLACED IN THE STRUCTURE. PROVIDE ALL BOND BEAM UNITS, UNTELS, ETC., AS REQUIRED.

2. **DEFECTIVE UNITS:** DO NOT USE CHIPPED OR CRACKED BLOCKS. IF ANY SUCH BLOCKS ARE DISCOVERED IN ANY FINISHING WALL, THEY SHALL BE PROMPTLY REMOVED AND REPLACED WITH NEW BLOCKS TO THE APPROVAL OF THE ENGINEER.

3. **MORTAR:** SHALL BE AS FOLLOWS:
a) TYPE "S" WHEN F'm IS LESS THAN OR EQUAL TO 2,000 PSI

4. **GROUT:** GROUT SHALL DEVELOP THE MINIMUM SPECIFIED COMPRESSIVE STRENGTH. GROUT SHALL CONSIST OF CEMENTITIOUS MATERIALS, AGGREGATE, AND WATER SUCH THAT THE MIXTURE WILL FLOW WITHOUT SEGREGATION OF THE CONSTITUENTS. THE MAXIMUM COARSE AGGREGATE SIZE SHALL BE 3/8 INCH.

5. **ADMIXTURES:** THE USE OF ADMIXTURES SHALL NOT BE PERMITTED IN MORTAR OR GROUT UNLESS SUSTAINABLE DATA HAS BEEN SUBMITTED TO AND REVIEWED BY THE ENGINEER, AND APPROVED BY THE BUILDING OFFICIAL. EXCEPT: A SHRINKAGE COMPENSATING ADMIXTURE SUCH AS Sika GROUT AD TYPE I* IS REQUIRED FOR GROUT USED IN HIGH LIFT CONSTRUCTION. THE USE OF ADMIXTURES IN MORTAR SHALL NOT BE PERMITTED WITHOUT REDUCING THE LIME CONTENT. THE USE OF UNCONTROLLED FIRE CLAY, DIRT, AND DELETERIOUS MATERIALS IS PROHIBITED.

6. **MIXING:** PLACE THE SAND, CEMENT AND WATER IN THE MIXER IN THAT ORDER FOR EACH BATCH OF MORTAR OR GROUT AND MIX FOR A PERIOD OF AT LEAST 2 MINUTES. ADD THE LIME AND CONTINUE MIXING FOR AS LONG AS NEEDED TO SECURE A UNIFORM MASS, BUT IN NO CASE LESS THAN 10 MINUTES. USE MIXERS TO SECURE A UNIFORM CAPACITY. BATCHES REQUIRING FRACTIONAL SACKS WILL NOT BE PERMITTED UNLESS CEMENT IS WEIGHED FOR EACH SUCH BATCH. RETEMPER MORTAR ONLY BY ADDING WATER INTO A BATCH MADE WITH THE MORTAR AND THEN CAREFULLY WORKING THE WATER INTO THE MORTAR. RETEMPERING THE MORTAR BY DASHING WATER OVER THE MORTAR SHALL NOT BE PERMITTED. ANY MORTAR OR GROUT WHICH IS UNUSED WITHIN ONE HOUR AFTER THE INITIAL MIXING SHALL BE REMOVED FROM THE WORK. MORTAR SHALL BE MIXED AND MAINTAINED ON A BOARD TO A SLUMP OF 2-3/4 INCHES PLUS OR MINUS 1/4 INCH USING A TRUNCATED CONE 4 INCHES BY 2 INCHES; 6 INCHES HIGH.

7. **CEMENT:** SHALL BE PORTLAND CEMENT CONFORMING TO ASTM C150, TYPE I OR TYPE II, AND SHALL BE ENTIRELY OF ONE MANUFACTURE.

8. **WATER:** WATER USED FOR MORTAR AND GROUT SHALL BE CLEAN AND FREE FROM DELETERIOUS AMOUNTS OF ACIDS, SALTS, ALKALI, AND ORGANIC MATERIALS.

9. **AGGREGATES:** SAND FOR MORTAR SHALL CONFORM TO ASTM C144 EXCEPT THAT NOT LESS THAN 3% OF THE SAND SHALL PASS THE NUMBER 100 SIEVE, SAND AND PEA GRAVEL FOR GROUT SHALL CONFORM TO ASTM C404, TABLE I, COARSE AGGREGATE.

10. **QUICKLIME:** QUICKLIME SHALL CONFORM TO ASTM C5.

11. **CONSTRUCTION JOINTS:** WHEN GROUTING IS REQUIRED FOR A PERIOD OF (1) HOUR OR LONGER, FORM HORIZONTAL CONSTRUCTION JOINTS BY STOPPING THE GROUT FOUR 1/1/2 INCHES MINIMUM BELOW THE UPPER MOST JOINT.

12. **ALIGNMENT OF VERTICAL CELLS:** ALL MASONRY SHALL BE BUILT TO PRESERVE THE UNOBSTRUCTED VERTICITY OF THE CELLS TO BE FILLED. THE VERTICAL ALIGNMENT SHALL BE SUFFICIENT TO MAINTAIN A CLEAR, UNOBSTRUCTED VERTICAL FLUE MEASURING NOT LESS THAN 3 INCHES.

13. **LAYING:** IN PLACING MORTAR IN HORIZONTAL JOINTS, COMPLETELY COVER THE FACE SHELLS OF THE UNITS WITH MORTAR. SOLIDLY FILL ALL HEAD JOINTS. LAY ALL MASONRY WITH COMMON OR RUNNING BOND. HOLD RAKING TO A MINIMUM.

14. **WALL CLEANING AND PROTECTION:** REMOVE CONCRETE SCUM AND GROUT STAINS ON THE WALL IMMEDIATELY. AFTER THE WALL IS CONSTRUCTED, DO NOT SATURATE WITH WATER FOR CURING OR ANY OTHER PURPOSE. CHECK ALL JOINTS FOR TIGHTNESS AND, WHERE CRACKS ARE VISIBLE, CHIP OUT THE MORTAR, TUCK POINT AND TOOL TO MATCH ADJACENT JOINING.

15. **REINFORCEMENT:** REINFORCEMENT SHALL BE FULLY EMBEDDED IN GROUT. SEE STRUCTURAL NOTES AND DETAILS FOR SIZE, GRADE, LAPS, ETC.

16. **GROUTING:** ALL WALLS SHALL HAVE ALL CELLS FILLED SOLID WITH GROUT.

17. **DOWELS:** ALL VERTICAL WALL REINFORCEMENT SHALL HAVE DOWELS EQUAL IN SIZE AND SPACING EMBEDDED INTO FOOTING UNLESS NOTED OTHERWISE ON THESE PLANS.

18. **MINIMUM COMPRESSIVE STRENGTH:** AT 28 DAYS SHALL BE AS LISTED BELOW:

DESIGN STRENGTH F'm (PSI)	BLOCK UNIT NET STRENGTH	GROUT STRENGTH	MORTAR TYPE	PRISM TEST(*)
STANDARD (1,500)	2,000	2,000	2,000	NO

19. **MAXIMUM HEIGHT:** MAXIMUM HEIGHT OF ANY GROUT POUR SHALL NOT BE GREATER THAN 5 FEET UNLESS PROPER HIGH-LIFT PROCEDURES ARE USED.

20. **MASONRY REBAR LAP LENGTHS:** THE MINIMUM MASONRY REBAR LAP LENGTHS SHALL BE AS FOLLOWS, U.N.O.

BAR SIZE	#3	#4	#5	#6	#7	#8	#9	#10	#11
LAP LENGTH	21"	33"	41"	49"	57"	65"	74"	90"	99"

21. **REBAR GRADES:** ALL REINFORCING STEEL SHALL BE NEW STOCK DEFORMED BARS CONFORMING TO ASTM A615, GRADE 60.

22. **REINFORCING COVER:** 2 INCHES THROUGHOUT, U.N.O.

23. **WET SET:** REINFORCEMENT MAY NOT BE WET SET IN MASONRY AFTER GROUTING.

24. **FIELD FOREMAN:** THE FIELD FOREMAN RESPONSIBLE FOR ALL STRUCTURAL MASONRY CONSTRUCTION SHALL HAVE A MINIMUM OF (3) YEARS OF EXPERIENCE IN THIS CAPACITY FOR THIS TYPE OF WORK.

20. **CONCRETE COVER FOR PRESTRESSED CONCRETE:** THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR PRESTRESSED & NON-PRESTRESSED REINFORCEMENT.

DESCRIPTION	MINIMUM COVER	TOLERANCES + OR -
CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	3"	3/8"
EXPOSED TO EARTH OR WEATHER: SLABS BEAM PRIMARY REINFORCEMENT	1" 1 1/2"	1/8" 3/8"
BEAM TIES	1 1/2"	3/8"
NOT EXPOSED TO WEATHER OR IN CONTACT WITH THE GROUND: SLABS BEAM PRIMARY REINFORCEMENT	3/4" 1 1/2"	1/8" 3/8"
BEAM TIES	1"	1/4"

21. **FIELD FOREMAN:** THE FIELD FOREMAN RESPONSIBLE FOR THE PLACEMENT OF ALL POST-TENSIONING SHALL HAVE A MINIMUM OF (3) YEARS EXPERIENCE IN THIS CAPACITY FOR THIS TYPE OF CONSTRUCTION.
- STEEL NOTES
1. **P.T. STEEL QUALITY:** ONE SAMPLE OF EACH REEL SHALL BE TESTED BY AN APPROVED LABORATORY. TEST RESULTS SHALL BE SUBMITTED TO THE ENGINEER AND BUILDING DEPARTMENT BEFORE STRESSING OF TENDONS. POST-TENSIONING TENDONS SHALL BE STRESS RELIEVED OR LOW RELAXATION, AND SHALL CONFORM TO THE FOLLOWING:

DESCRIPTION	DATA
SEVEN WIRE STRAND ASTM DESIGNATION	A416
1/2" DIAMETER TENDON AREA	0.153 SQ.IN.
ULTIMATE STRENGTH (fpu)	270 KSI
JACKING STRESS (.8 fpu)	216 KSI 33.0 KIPS
ANCHORING STRESS (.70 fpu MAX.)	189 KSI 28.9 KIPS
EFFECTIVE DESIGN STRESS: STRESS RELIEVED LOW RELAXATION	162 KSI 24.8 KIPS 175 KSI 26.8 KIPS (*)

(*) HIGHER VALUES MAY BE USED WHEN SUPPORTED BY CALCULATION. CALCULATIONS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW.

2. **SHOP DRAWINGS:** SUPPLIER SHALL SUBMIT SHOP DRAWINGS PER GENERAL NOTE #16.

3. **CONTRACTOR SUBMISSIONS:** CONTRACTOR SHALL PREPARE FRICTION CALCULATIONS AND SHOP DRAWINGS OF TENDON LAYOUT, DEAD-END AND STRESSING-AND ANCHORAGE DETAILS. A RECORD OF ALL JACKING FORCES AND FIELD-MEASURED ELONGATIONS SHALL BE SUBMITTED TO THE ENGINEER.

4. **TWISTING:** OR ENTWINING OF INDIVIDUAL WIRES OR STRANDS WITHIN A BUNDLE OR A BEAM SHALL NOT BE PERMITTED.

5. **ELONGATION TOLERANCE:** FIELD READINGS OF ELONGATIONS AND/OR STRESSING FORCES SHALL NOT VARY BY MORE THAN 7%.

20. **CONCRETE COVER FOR PRESTRESSED CONCRETE:** THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR PRESTRESSED & NON-PRESTRESSED REINFORCEMENT.

DESCRIPTION	MINIMUM COVER	TOLERANCES + OR -
CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	3"	3/8"
EXPOSED TO EARTH OR WEATHER: SLABS BEAM PRIMARY REINFORCEMENT	1" 1 1/2"	1/8" 3/8"
BEAM TIES	1 1/2"	3/8"
NOT EXPOSED TO WEATHER OR IN CONTACT WITH THE GROUND: SLABS BEAM PRIMARY REINFORCEMENT	3/4" 1 1/2"	1/8" 3/8"
BEAM TIES	1"	1/4"

21. **FIELD FOREMAN:** THE FIELD FOREMAN RESPONSIBLE FOR THE PLACEMENT OF ALL POST-TENSIONING SHALL HAVE A MINIMUM OF (3) YEARS EXPERIENCE IN THIS CAPACITY FOR THIS TYPE OF CONSTRUCTION.
1. **MEASUREMENTS:** VERIFY ALL MEASUREMENTS AT JOBSITE.

2. **COORDINATION:** STEEL WORK SHALL BE COORDINATED WHERE IT ADJOINS WITH OTHER CONSULTANTS WORK. VERIFY DETAILS OF ATTACHMENT, FITTINGS, ETC.

3. **MISCELLANEOUS FASTENINGS:** PROVIDE ALL LUGS, CLIPS, ANCHORS AND MISCELLANEOUS FASTENINGS NECESSARY FOR THE COMPLETE ASSEMBLY AND INSTALLATION OF STEEL.

4. **GROUTING OF COLUMN BASE PLATES:** PRECISION SUPPORT GROUT SHALL BE MASTERFLOW 928*, MANUFACTURED BY MASTER BUILDERS. SEE INSPECTION NOTES FOR SPECIAL INSPECTION REQUIREMENTS. OTHER PRODUCTS WILL ONLY BE ACCEPTABLE PROVIDING WRITTEN APPROVAL OF THE ENGINEER IS OBTAINED PRIOR TO BIDDING. ACCEPTANCE WILL BE GRANTED ONLY UPON SATISFACTORY EVIDENCE PROVING THAT THE SUBSTITUTE MATERIAL MEETS ALL OF THE FOLLOWING REQUIREMENTS:
(A) U.S. CORPS OF ENGINEERS CRO-C 621-80 "SPECIFICATIONS FOR NON-SHRINK GROUT"
(B) U.S. CORPS OF ENGINEERS CRO-C 611-80 "METHOD OF TEST FOR FLOW OF GROUT MIXTURES (FLOW CONE METHOD)"
(C) FREE OF GAS PRODUCING OR GAS RELEASING AGENTS.
(D) FREE OF OXIDIZING CATALYSTS.
(E) FREE OF INORGANIC ACCELERATORS, INCLUDING CHLORIDES.
(F) FREE OF ANY DISCLAIMERS RELATED TO ITS STATED PERFORMANCE.
5. **DISSIMILAR METALS:** PROTECT ALL DISSIMILAR METALS FROM GALVANIC CORROSION.

6. **WELDING:** PERFORM ALL WELDING IN ACCORDANCE WITH AWS CODE D 1.1-LATEST EDITION. WELDS NORMALLY EXPOSED TO VIEW IN THE FINISHED WORK SHALL BE UNIFORM, MADE AND GROUND SMOOTH. WHERE WELDING IS DONE IN PROXIMITY TO GLASS OR FINISHED SURFACES, SUCH SURFACES SHALL BE PROTECTED FROM DAMAGE DUE TO WELD SPARKS, SPATTER, OR TRAMP METAL.

7. **BOLTED, SCREWED, AND RIVETED CONNECTIONS:** PROVIDE WASHERS UNDER ALL HEADS AND NUTS BEARING ON WOOD. DRAW ALL NUTS TIGHT AND UPSET THREADS OF PERMANENT CONNECTIONS TO PREVENT LOOSENING. USE BEVELED WASHERS WHERE BEARING IS ON SLOPED SURFACES.

8. **CLEANING:** THOROUGHLY CLEAN ALL MILL SCALE, RUST, DIRT, GREASE AND OTHER FOREIGN MATTER FROM FERROUS METAL PRIOR TO ANY GALVANIZING, HOT PHOSPHATE TREATMENT OR PAINTING.

9. **PAINTING:** AFTER MATERIAL HAS BEEN PROPERLY CLEANED AND TREATED, APPLY SHOP PRIME COAT OF PAINT TO ALL SURFACES EXCEPT THOSE ENCASED IN CONCRETE OR MASONRY. APPLY ALL PAINT AS PER MANUFACTURER'S DIRECTIONS. SPOT PAINT ALL ABRASIONS AND FIELD CONNECTIONS AFTER ASSEMBLY. SHOP COAT SHALL BE DRY PRIOR TO SHIPMENT TO JOB SITE. UNLESS OTHERWISE SPECIFIED OR DIRECTED, DO NOT APPLY SHOP PRIME COATS OR ANY STENCILED OR PAINTED IDENTIFICATION MARKINGS TO ANY GALVANIZED SURFACES.

10. **GALVANIZING:** SHALL CONFORM TO ASTM A123 FOR ROLLED, PRESSED AND FORGED SHAPES, PLATES, BAR AND STRIP; A153 FOR HARDWARE ITEMS AND A385 FOR ASSEMBLED STEEL PRODUCTS. UNLESS OTHERWISE PERMITTED, DO ALL GALVANIZING AFTER FABRICATION, IN LARGEST SECTIONS PRACTICABLE. WHERE GALVANIZING IS REMOVED BY WELDING OR OTHER ASSEMBLY PROCEDURE, REPAIR ABRASION AREAS WITH HOT-DIP ZINC OR ZINC-RICH PAINT.

11. **MATERIALS:** STANDARD STRUCTURAL STEEL SHAPES, BARS & PLATES SHALL BE ASTM A36. EXCEPT WIDE FLANGE COLUMN SHAPES WHICH SHALL BE ASTM A992.

12. **BOLTS:** SHALL CONFORM TO ASTM 307, GRADE A, UNLESS NOTED OTHERWISE.

13. **WELDER QUALIFICATION:** WELDERS SHALL BE QUALIFIED BY TEST AS PER AWS D11-LATEST EDITION STRUCTURAL WELDING CODE STEEL SECTION 5 QUALIFICATIONS & SHALL BE CERTIFIED BY A QUALIFIED TESTING LABORATORY OR A REGISTERED ENGINEER KNOWLEDGEABLE IN WELDING CONSTRUCTION.

14. **WELDING:** ELECTRODES TO BE E70XX.

15. **PAINTED STUDS AND JOISTS:** ASTM A570 FOR 12, 14, AND 16 GAGE WITH A MINIMUM YIELD STRENGTH OF 50 KSI, ASTM A611 GRADE C FOR 18 AND 20 GAGE STUDS, JOISTS, BRIDGING, TRACK, END CLOSURES AND ACCESSORIES WITH A MINIMUM YIELD STRENGTH OF 33 KSI.

16. **GALVANIZED STUDS AND JOISTS:** ASTM A446 GRADE D FOR 12, 14, AND 16, GAGE WITH A MINIMUM YIELD STRENGTH OF 50 KSI, ASTM A446 GRADE A FOR 18 AND 20 GAGE STUDS, JOISTS, BRIDGING, TRACK, END CLOSURES AND ACCESSORIES WITH A MINIMUM YIELD STRENGTH OF 33 KSI.

17. **GALVANIZED DECKING:** SHALL BE PER ASTM A446

18. **SHOP DRAWINGS:** SHOP DRAWINGS SHALL SHOW DIMENSIONS, SIZES, THICKNESSES, GAGES, FINISHES, JOINING, ATTACHMENTS, AND RELATIONSHIP OF WORK TO ADJOINING CONSTRUCTION. WHERE WELDED CONNECTORS AND INSERTS ARE USED, SHOP DRAWINGS SHALL SHOW EXACT LOCATION OF ALL WELDS, JOINTS, AND ALL SUCH DRAWINGS SHALL BE FURNISHED TO THE TRADES RESPONSIBLE FOR INSTALLING THE CONNECTORS OR INSERTS. SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO FABRICATION.

19. **STEEL FABRICATION:** ALL STRUCTURAL AND MISCELLANEOUS STEEL SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE A.I.S.C. SPECIFICATIONS FOR STEEL BUILDINGS, A.I.S.C.-CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS & BRIDGES, LATEST EDITIONS.

20. **PIPE COLUMNS:** SHALL CONFORM TO ASTM A53, GRADE B, UNLESS OTHERWISE NOTED ON PLANS.

21. **STRUCTURAL TUBING:** SHALL CONFORM TO ASTM A500, GRADE B, UNLESS OTHER WISE NOTED.

22. **INSPECTION OF WELDS:** SEE INSPECTION NOTES ON THIS SHEET.

23. **FIELD FOREMAN:** THE FIELD FOREMAN RESPONSIBLE FOR THE ERECTION OF ALL STRUCTURAL STEEL SHALL HAVE A MINIMUM OF (3) YEARS EXPERIENCE IN THIS CAPACITY FOR THIS TYPE OF CONSTRUCTION.
- STAIR AND ELEVATOR NOTES
1. **STAIR SUPPLIER:** SHALL BE RESPONSIBLE FOR THE DESIGN AND DETAILING OF ALL STAIR STRUCTURE INCLUDING CONNECTIONS TO THE BUILDING STRUCTURE. STAIR SUPPLIER SHALL SUBMIT DRAWINGS AND CALCULATIONS, STAMPED BY A CALIFORNIA REGISTERED CIVIL ENGINEER TO THE ARCHITECT, ENGINEER AND BUILDING DEPARTMENT FOR APPROVAL PRIOR TO FABRICATION AND ERECTION.

2. **SLAB MOVEMENT:** STAIRS BETWEEN ELEVATED DECKS WITH SINGLE RUNS AND ALL STAIRS BETWEEN ALL ELEVATED DECKS AND GRADE SHALL ALLOW FOR SLAB MOVEMENT IN ALL DIRECTIONS EQUAL TO 1/4".

3. **ELEVATOR SUPPLIER:** SHALL SUBMIT SHOP DRAWINGS TO THE ARCHITECT AND ENGINEER FOR APPROVAL PRIOR TO ERECTION. SHOP DRAWINGS SHALL SHOW THE MAGNITUDE & LOCATION OF ALL LOADS IMPOSED ON STRUCTURE.

4. **ANCHORAGE:** THE USE OF EXPANSION ANCHORS IN ELEVATED SLABS IS NOT ALLOWED WITHOUT PRIOR APPROVAL OF THE ENGINEER.
- STRUCTURAL OBSERVATION
1. STRUCTURAL OBSERVATION SHALL BE PROVIDED IN ACCORDANCE WITH C.B.C. SECTION 1702. AND PRESTRESS NOTE #25.

2. **NOTIFYING THE ENGINEER:** THE ENGINEER SHALL BE NOTIFIED 48 HOURS PRIOR TO PLACING COVERINGS ON ALL WORK REQUIRING STRUCTURAL OBSERVATION AND OR SPECIAL INSPECTION.

3. **JOB-SITE VISITS:** BY WATRY DESIGN, INC. DOES NOT CONSTITUTE AN OFFICIAL INSPECTION. DURING FIELD VISITS BY WATRY REPRESENTATIVES ANY INFORMATION COMMUNICATED TO, ALTERNATIVELY, SPECIFY THE METHOD OF REPAIR, LE GOUGE OUT THE WELD AREAS WHERE DISCONTINUITIES OCCUR, SMOOTH AIR-ARCHED SURFACES, REWELD AND RETEST. WELDING OVER THE DISCONTINUITIES IS NOT PERMITTED, REGARDLESS OF THEIR CLASSIFICATIONS.

4. **ANCHORAGE:** THE USE OF EXPANSION ANCHORS IN ELEVATED SLABS IS NOT ALLOWED WITHOUT PRIOR APPROVAL OF THE ENGINEER.

5. **HIGH-STRENGTH BOLTING:** DURING ALL BOLT INSTALLATIONS AND TIGHTENING OPERATIONS FOR SLIP CRITICAL CONNECTIONS.

6. **GROUTING OF COLUMN BASE PLATES:** SPECIAL INSPECTION SHALL BE PROVIDED FOR ALL BASE PLATES 1 1/2" THICK OR GREATER.

7. **STRUCTURAL MASONRY:** DURING PREPARATION OF MASONRY WALL PRISMS, SAMPLING AND PLACING OF ALL MASONRY UNITS, PLACEMENT OF REINFORCEMENT, INSPECTION OF GROUT SPACE IMMEDIATELY PRIOR TO CLOSING OF CLEANOUTS, AND DURING ALL GROUTING OPERATIONS. EXCEPT: SPECIAL INSPECTION NEED NOT BE PROVIDED FOR STRUCTURES DESIGNED IN CONFORMANCE FOR NON-CONTINUOUS INSPECTION AND SO NOTED ON THESE PLANS.

8. **SPECIAL GRADING, EXCAVATION AND FILLING:** DURING EARTHWORK EXCAVATIONS, GRADING AND FILLING OPERATIONS IN ACCORDANCE WITH CHAPTER 18 & APPENDIX CHAPTER 33 OF THE C.B.C.

9. **SELECTION OF SPECIAL INSPECTOR:** THE CITY SHALL SUBMIT TO THE ENGINEER A LIST OF (3) FIRMS CHOSEN TO PERFORM THE SPECIAL INSPECTION DUTIES. THE SPECIAL INSPECTION FIRM SHALL HAVE AT LEAST (5) YEARS OF EXPERIENCE IN THE WORK TO BE INSPECTED. THE ENGINEER SHALL RECOMMEND ONE FIRM FROM THOSE SUBMITTED.

10. **FIELD FOREMAN:** ALL FIELD INSPECTORS SHALL HAVE A MINIMUM OF (1) YEAR EXPERIENCE IN THE SPECIFIC CONSTRUCTION BEING INSPECTED.
- DEFERRED SUBMITTAL ITEMS
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND COORDINATING DESIGN AND DETAILING OF THE FOLLOWING PRE-ENGINEERED SYSTEMS, INCLUDING CONNECTIONS TO THE BUILDING STRUCTURE. THE CONTRACTOR SHALL SUBMIT DRAWINGS AND CALCULATIONS STAMPED BY A CALIFORNIA REGISTERED CIVIL OR STRUCTURAL ENGINEER TO THE ARCHITECT, ENGINEER AND BUILDING DEPARTMENT FOR APPROVAL PRIOR TO FABRICATION AND ERECTION.

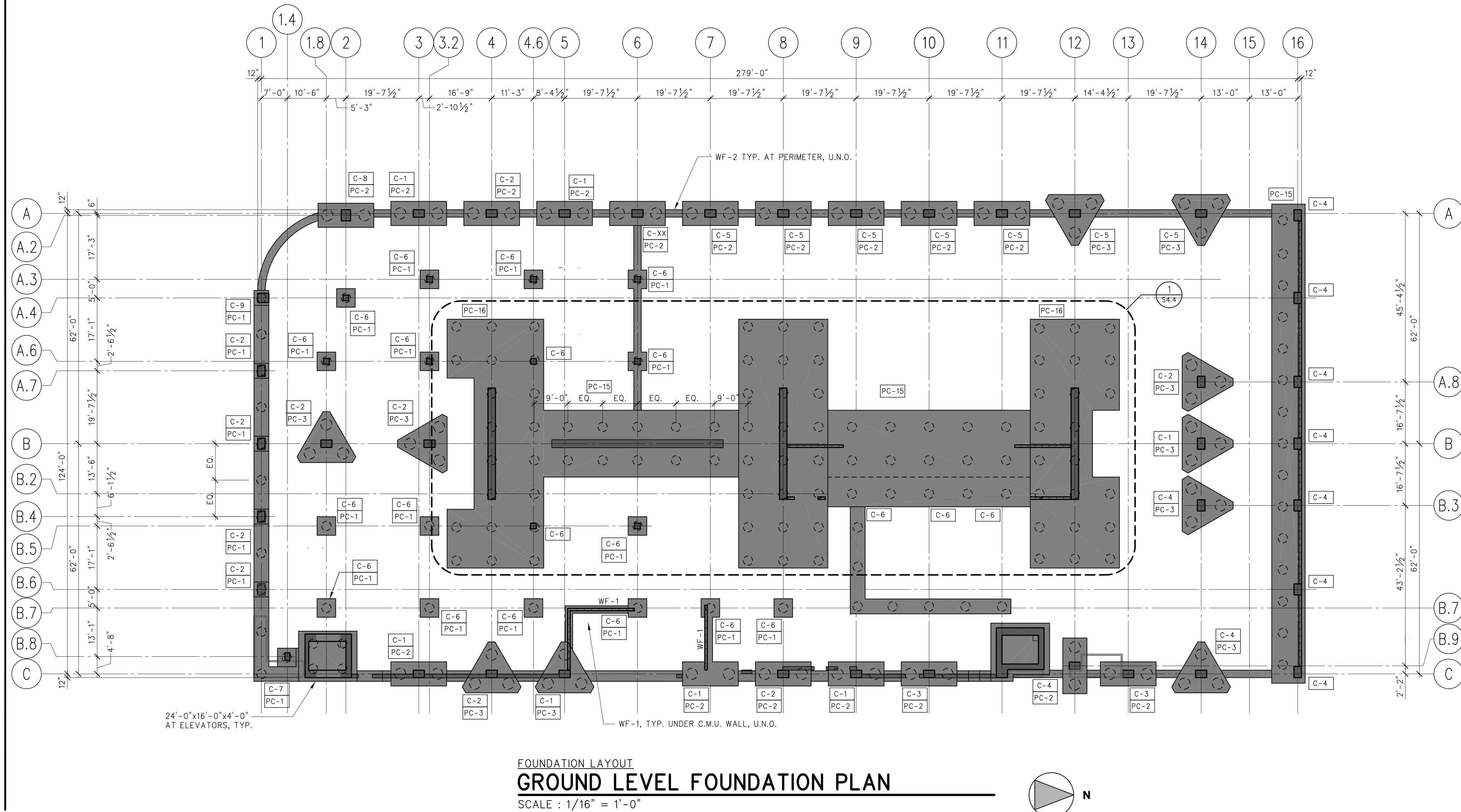
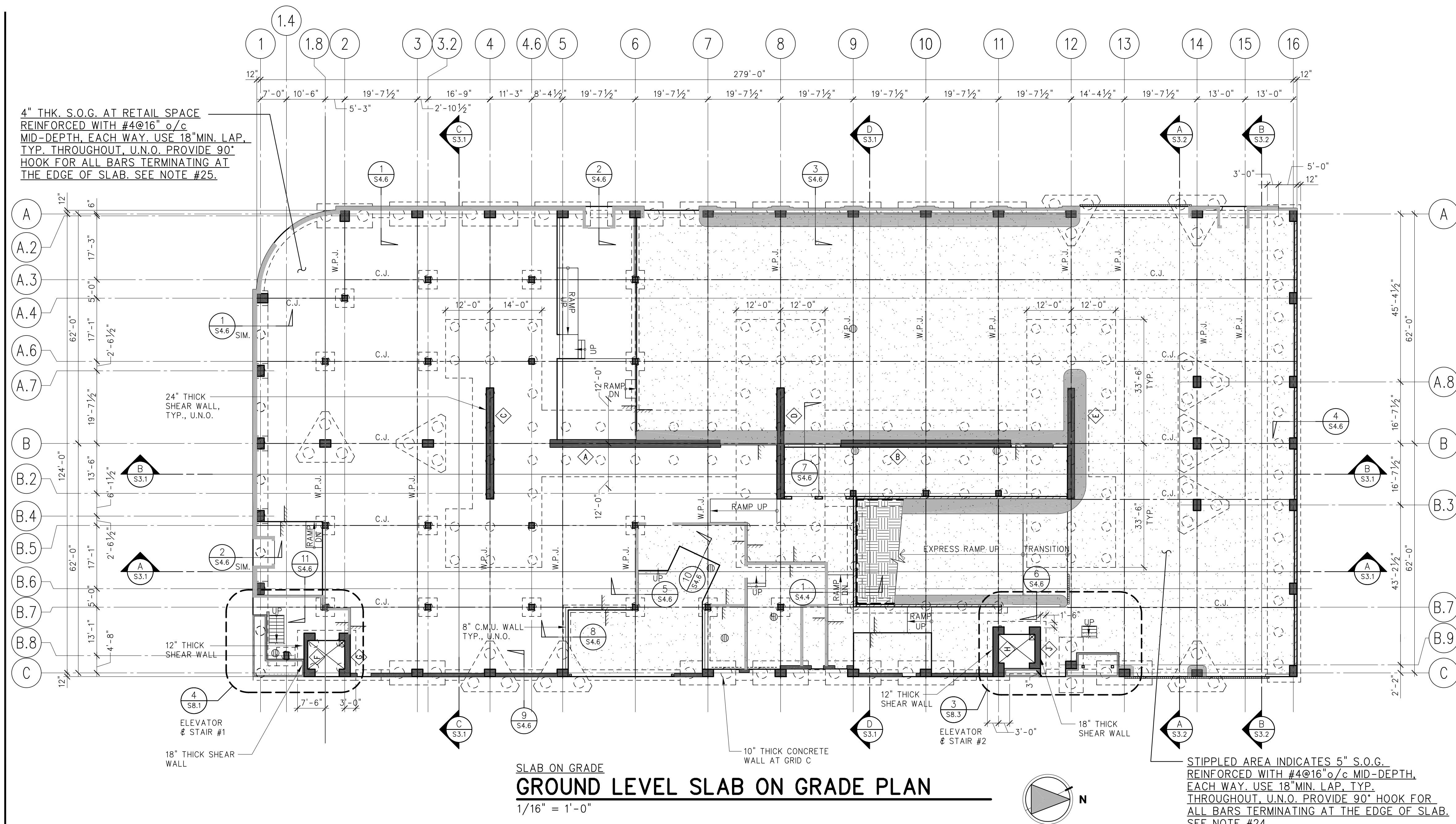
DEFERRED ITEMS INCLUDE BUT ARE NOT LIMITED TO:
1. METAL STAIRS
2. ELEVATORS
3. EXTERIOR CLADDING SYSTEMS
4. INTERIOR TENANT IMPROVEMENTS
5. ROOF TRELLIS
6. WINDOW WASHING SYSTEMS
7. CANOPIES
8. METAL STUD WALL SYSTEMS
9. WINDOW WALL SYSTEMS
- INSPECTION REQUIREMENT
- | REINFORCED CONCRETE, GUNITE, GROUT & MORTAR | | | | STRUCTURAL STEEL/WELDING | |
|---|------------|-----------|----------|--|---|
| CONCRETE | GUNITE | GROUT | MORTAR | | SAMPLE AND TEST (LIST SPECIFIC MEMBERS BELOW) |
| | | | | AGGREGATE TESTS | X SHOP MATERIAL IDENTIFICATION |
| | | | | REINFORCING TESTS | X WELDING INSPECTION [X] SHOP [X] FIELD |
| X | | | | MIX DESIGNS | X ULTRASONIC INSPECTION [X] SHOP [X] FIELD |
| X | X | X | X | REINF. PLACEMENT | X HIGH-STRENGTH BOLTING |
| * X | | | | BATCH PLANT INSP. | INSPECTION [] SHOP [] FIELD |
| X | | X | X | INSPECT PLACING | [X] A325 |
| X | X | X | X | CAST SAMPLES | [] A490 [] N [] X [] F |
| X | | X | X | PICK-UP SAMPLES | X METAL DECK WELDING INSPECTION |
| X | | X | X | COMPRESSION TESTS | X REINFORCING STUD WELDING INSPECTION |
| | | | | | X METAL STUD WELDING INSPECTION |
| | | | | | X CONCRETE INSERT WELDING INSPECTION |
| * FIRST BATCHES FOR EACH P.T. SLAB POUR | | | | | |
| PRECAST/PRESTRESSED CONCRETE | | | | FIREPROOFING | |
| PILES | POST-TENS. | PRE-TENS. | CLADDING | | PLACEMENT |
| | | | | AGGREGATE TESTS | DENSITY TESTS |
| | | | | REINFORCING TESTS | THICKNESS TESTS |
| X | | | | TENDON TESTS | INSPECT BATCHING |
| X | | | | MIX DESIGNS | INSULATING CONCRETE |
| X | X | X | X | REINF. PLACEMENT | SAMPLE AND TEST |
| | | | | INSERT PLACEMENT | PLACEMENT INSPECTION |
| | | | | CONCRETE BATCHING | UNIT WEIGHTS |
| X | | | | CONCRETE PLACEMENT | FILL MATERIAL |
| | | | | INSTALLATION INSP. | X ACCEPTANCE TESTS |
| X | X | X | X | CAST SAMPLES | X PLACEMENT INSPECTION |
| X | X | X | X | PICK-UP SAMPLE | X FIELD DENSITY |
| X | X | X | X | COMPRESSION TESTS | |
| MASONRY | | | | STRUCTURAL WOOD | |
| X | | | | SPECIAL INSPECTION | SHEAR WALL NAILING INSPECTION |
| | | | | PRELIMINARY ACCEPTANCE TESTS (MASONRY UNITS, WALL PRISMS) | INSPECTION OF GLU-LAM FAB. |
| X | | | | SUBSEQUENT TESTS (MORTAR, GROUT) | INSPECTION OF TRUSS JOIST FAB. |
| | | | | | SAMPLE AND TEST COMPONENTS |
| X | | | | PLACEMENT INSPECTION OF UNITS | |
| | | | | OTHER TEST, INSPECTIONS, OR SPECIAL INSTRUCTIONS | |
| X | | | | EPOXY GROUTED REBAR & EXPANSION ANCHORS WHEN REQUIRED FOR FIELD CONDITIONS | |
| X | | | | DURING ALL POST-TENSIONING, INSPECT THE TRIMMING & CAPPING OF TENDONS PRIOR TO GROUTING RECESSES | |
- Architects • Engineers • Parking Planners



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- GENERAL NOTES
- MOUNTAIN VIEW
PARKING STRUCTURE
MOUNTAIN VIEW, CALIFORNIA
- | REVISIONS | | |
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FOUNDATION NOTES

- VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS.
- FOR TYPICAL BAR BENDING, SEE DETAIL (1) S4.1
- FOR REBAR TENSION LAP SPLICES AND ANCHORAGE REQUIREMENTS, SEE SCHEDULE ON SHEET S4.1
- FOR TYPICAL WELDING SPICE, SEE DETAIL (2) S4.1
- FOOTING INTERSECTIONS AND CORNERS ARE TO BE PER DETAIL (17) S4.1
- FOR PIPE AND TRENCH CLEARANCE AT FOOTINGS, SEE DETAIL (8) S4.1
CAUTION: IT MAY, IN SOME CASES, BE NECESSARY TO INCREASE THE FOOTING DEPTHS, SEE PLUMBING DRAWINGS FOR ANY CONFLICTS.
- FOR THICKENED SLAB FOR PIPE OR CONDUIT, SEE DETAIL (9) S4.1
- STEPPED FOOTINGS ARE TO BE PER DETAIL (10) S4.1, U.N.O.
- FOOTING CONSTRUCTION JOINTS ARE TO BE PER DETAIL (11) S4.1
- WALL OPENINGS ARE TO BE TRIMMED WITH ADDED REINF. PER DETAIL (14) S4.1
- CONCRETE STAIRS-ON-GRADE ARE TO BE PER DETAIL (16) S4.1
- FOR GRADE BEAM INTERSECTION THROUGH SPREAD FOOTING, SEE DETAIL (1) S4.1
- S.O.G. EQUIPMENT PADS ARE TO BE PER DETAIL (3) S4.4 SIM.
- TYPICAL CURB TO BE PER DETAIL (3) S4.4 IN S.O.G.
- TYPICAL STEP IN S.O.G. TO BE PER DETAILS (19) S4.1 & (20) S4.1
- GRADE BEAM SIZE TRANSITIONS TO BE PER DETAILS (8) S4.3 & (9) S4.3
- ANY REQUIRED SLAB-ON-GRADE CONSTRUCTION JOINTS ARE TO BE PER DETAIL (12) S4.1
- ANY REQUIRED SLAB-ON-GRADE WEAKENED PLANE JOINTS ARE TO BE PER DETAIL (13) S4.1
- ALL C.M.U. WALLS SHALL BE PRECISION BLOCK, TYP. U.N.O. VERIFY w/ ARCH. DWGS.
- FOR GAP TOLERANCE, SEE DETAIL (21) S4.2
- FOR BENT BAR ANCHOR BOLTS, SEE DETAIL (7) S4.1
- FOR BAR WELDING TO PLATES, SEE DETAIL (6) S4.1
- FOR EDGE OF SLAB ON GRADE, SEE DETAIL
- S.O.G. REQUIREMENTS: S.O.G. SHALL BE UNDERLAIN BT AT LEAST 6" OF CLASS 2 AGGREGATE BASE COMPACTED TO AT LEAST 90% RELATIVE COMPACTION (ASTM D1557). SEE GEOTECHNICAL REPORT REFERENCED IN FOUNDATION NOTE #1.
- RETAIL S.O.G. SHALL BE UNDERLAIN BY 2" SAND OVER A MINIMUM 10-MIL-THICK VAPOR BARRIER OVER AT LEAST 4 INCHES OF FREE DRAINING GRAVEL OVER AT LEAST 12 INCHES OF NON-EXPANSIVE FILL. SEE GEOTECHNICAL REPORT REFERENCED IN FOUNDATION NOTE #1 ON SHEET S1.1.

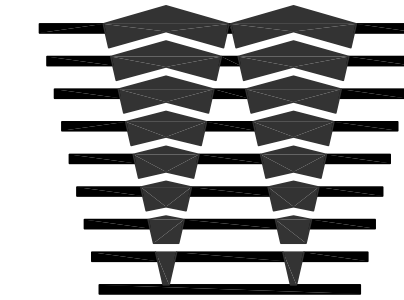
LEGEND

- INDICATES CONCRETE COLUMN TYPE, SEE SCHEDULE ON SHEET S4.2 AND DETAILS 24 & 25
- INDICATES PIER CAP TYPE, SEE DETAIL 8/S4.3 SEE SCHEDULES ON SHEET S4.3
- INDICATES SHEAR WALL TYPE, SEE ELEVATIONS ON SHEET S5.2

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- ⊙ FOR LOCATION & SLOPE
- INDICATES C.M.U. WALLS, SEE DETAILS 21, 22, 24 & 25

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GROUND LEVEL FOUNDATION PLAN

**MOUNTAIN VIEW
PARKING STRUCTURE**
MOUNTAIN VIEW, CALIFORNIA

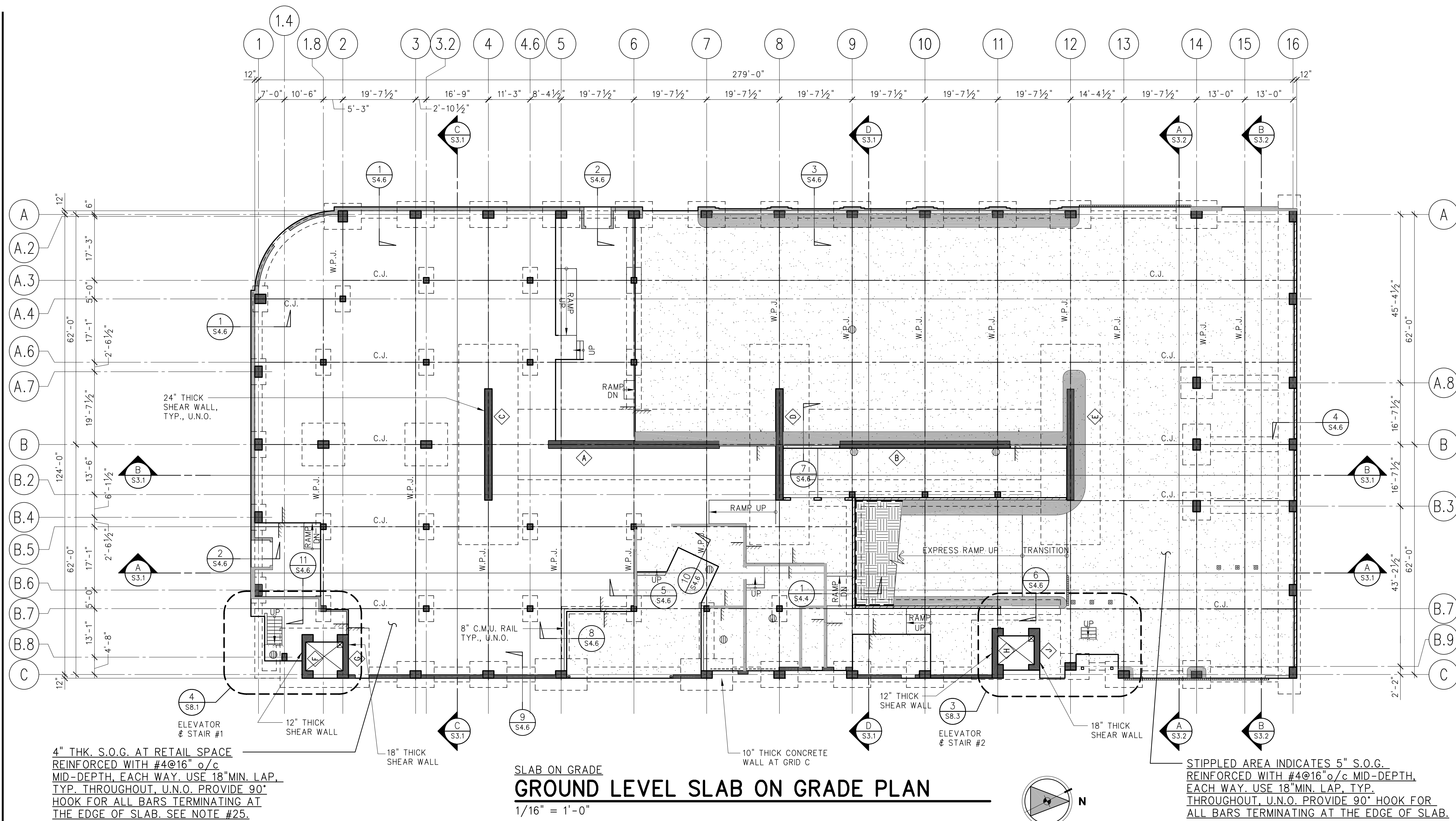
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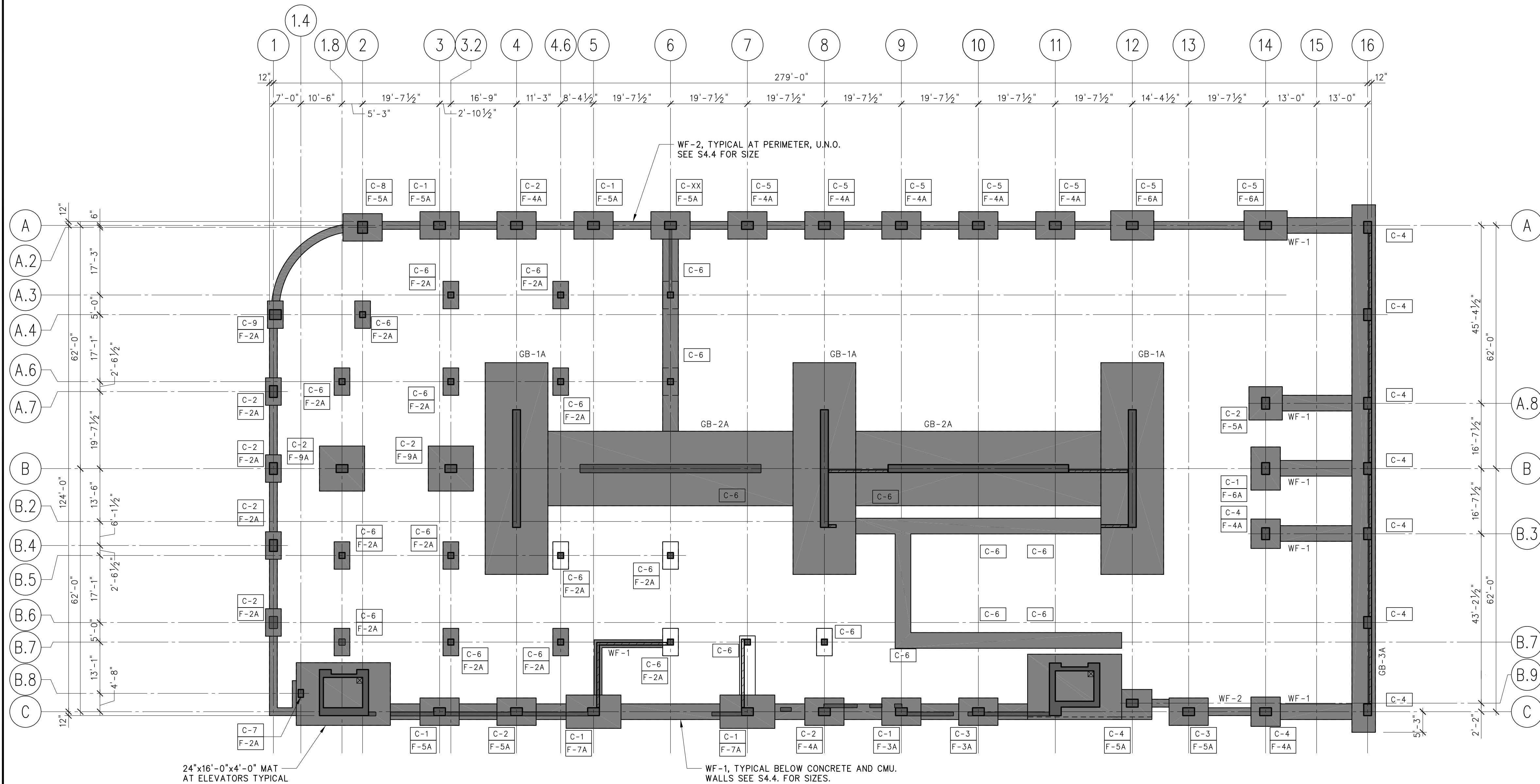
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SHEET

S2.1



SLAB ON GRADE
GROUND LEVEL SLAB ON GRADE PLAN
1/16" = 1'-0"



FOUNDATION LAYOUT
GROUND LEVEL FOUNDATION PLAN
SCALE : 1/16" = 1'-0"

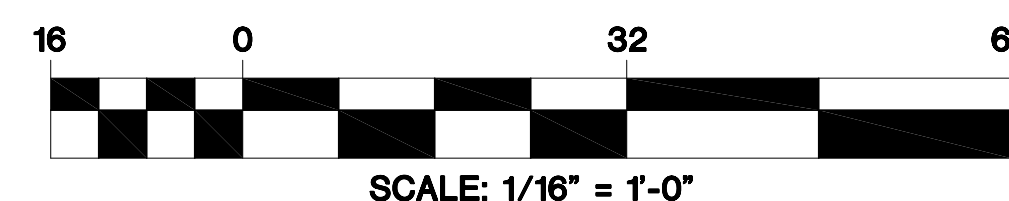
FOUNDATION NOTES

- VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS.
- FOR TYPICAL BAR BENDING, SEE DETAIL (1) S4.1
- FOR REBAR TENSION LAP SPLICES AND ANCHORAGE REQUIREMENTS, SEE SCHEDULE ON SHEET S4.1
- FOR TYPICAL WELDING SPICE, SEE DETAIL (2) S4.1
- FOOTING INTERSECTIONS AND CORNERS ARE TO BE PER DETAIL (17) S4.1
- FOR PIPE AND TRENCH CLEARANCE AT FOOTINGS, SEE DETAIL (8) S4.1
CAUTION: IT MAY, IN SOME CASES, BE NECESSARY TO INCREASE THE FOOTING DEPTHS, SEE PLUMBING DRAWINGS FOR ANY CONFLICTS.
- FOR THICKENED SLAB FOR PIPE OR CONDUIT, SEE DETAIL (9) S4.1
- STEPPED FOOTINGS ARE TO BE PER DETAIL (10) S4.1, U.N.O.
- FOOTING CONSTRUCTION JOINTS ARE TO BE PER DETAIL (11) S4.1
- WALL OPENINGS ARE TO BE TRIMMED WITH ADDED REINF. PER DETAIL (14) S4.1
- CONCRETE STAIRS-ON-GRADE ARE TO BE PER DETAIL (16) S4.1
- FOR GRADE BEAM INTERSECTION THROUGH SPREAD FOOTING, SEE DETAIL (1) S4.3
- S.O.G. EQUIPMENT PADS ARE TO BE PER DETAIL (3) S4.4 SIM.
- TYPICAL CURB TO BE PER DETAIL (3) S4.4 IN S.O.G.
- TYPICAL STEP IN S.O.G. TO BE PER DETAILS (19) S4.1, (20) S4.1
- GRADE BEAM SIZE TRANSITIONS TO BE PER DETAILS (8) S4.3, (9) S4.3
- ANY REQUIRED SLAB-ON-GRADE CONSTRUCTION JOINTS ARE TO BE PER DETAIL (12) S4.1
- ANY REQUIRED SLAB-ON-GRADE WEAKENED PLANE JOINTS ARE TO BE PER DETAIL (13) S4.1
- ALL C.M.U. WALLS SHALL BE PRECISION BLOCK, TYP. U.N.O. VERIFY W/ ARCH. DWGS.
- FOR GAP TOLERANCE, SEE DETAIL (21) S4.2
- FOR BENT BAR ANCHOR BOLTS, SEE DETAIL (7) S4.1
- FOR BAR WELDING TO PLATES, SEE DETAIL (6) S4.1
- FOR EDGE OF SLAB ON GRADE, SEE DETAIL (18) S4.1
- S.O.G. REQUIREMENTS: S.O.G. SHALL BE UNDERLAIN BT AT LEAST 6" OF CLASS 2 AGGREGATE BASE COMPACTED TO AT LEAST 90% RELATIVE COMPACTION (ASTM D1557). SEE GEOTECHNICAL REPORT REFERENCED IN FOUNDATION NOTE #1
- RETAIL S.O.G. SHALL BE UNDERLAIN BY 2" SAND OVER A MINIMUM 10-MIL-THICK VAPOR BARRIER OVER AT LEAST 4 INCHES OF FREE DRAINING GRAVEL OVER AT LEAST 12 INCHES OF NON-EXPANSIVE FILL. SEE GEOTECHNICAL REPORT REFERENCED IN FOUNDATION NOTE #1 ON SHEET S1.1.

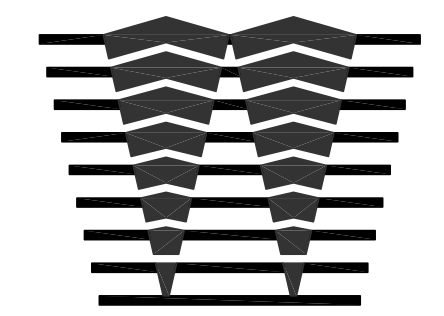
LEGEND

- INDICATES CONCRETE COLUMN TYPE, SEE SCHEDULE ON SHEET S4.2 AND DETAILS (10) S4.1, (11) S4.1, (12) S4.1, (13) S4.1, (14) S4.1, (15) S4.1, (16) S4.1, (17) S4.1, (18) S4.1, (19) S4.1, (20) S4.1, (21) S4.2
- INDICATES PIER CAP TYPE, SEE DETAIL 8/S4.3 SEE SCHEDULES ON SHEET S4.3
- INDICATES CURB WALL TYPE, SEE ELEVATIONS ON

- F.D. INDICATES FLOOR DRAIN, SEE ARCH. & PLUMBING DRAWINGS FOR LOCATION & SLOPE
- INDICATES C.M.U. WALLS, SEE DETAILS (21) S4.2, (22) S4.2, (24) S4.2 & 25



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GROUND LEVEL FOUNDATION PLAN

**MOUNTAIN VIEW
PARKING STRUCTURE**
MOUNTAIN VIEW, CALIFORNIA

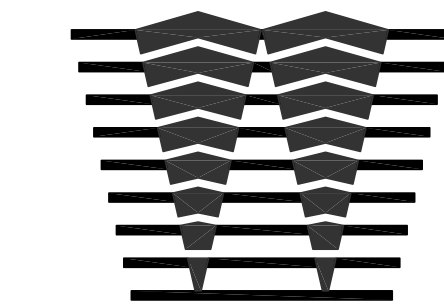
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SHEET

S2.1A


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SECOND LEVEL FRAMING AND CHORD/COLLECTOR PLANS

**MOUNTAIN VIEW
PARKING STRUCTURE**
 MOUNTAIN VIEW, CALIFORNIA

02-24-05

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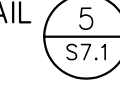
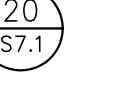



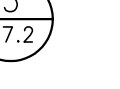





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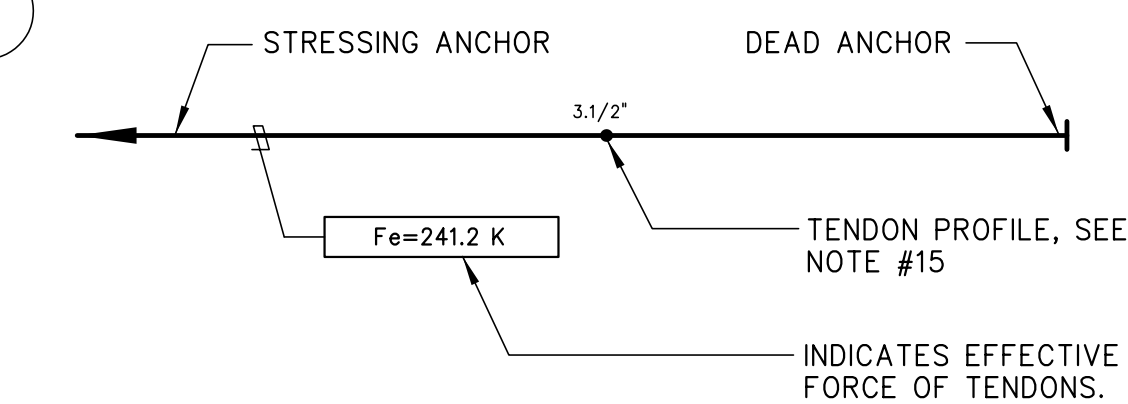
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S2.2
ELEVATED SLAB NOTES

- VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS.
- ANY REQUIRED SLAB CONSTRUCTION JOINT IS TO BE PER DETAIL .
- FOR ANCHORAGE AT END OF BANDED TENDONS, SEE DETAIL .
- ALL SLAB OPENINGS GREATER THAN 12" SQUARE (PLUMBING, ELECTRICAL, MECHANICAL...) ARE TO HAVE MINIMUM TRIM REBAR AS PER DETAIL .
- FOR REIN. WHERE MULTIPLE CONDUITS/PIPES OCCUR IN SLAB SEE DETAIL .
- FOR SLAB PENETRATION AT TENDON ANCHORS, SEE DETAIL .
- MINIMIZE OR ELIMINATE HORIZONTAL CURVATURE OF TENDONS WHENEVER POSSIBLE. FOR TENDON LAYOUT AT OPENINGS, SEE DETAIL .
- BOTTOM REBAR NOTES: 25% OF ALL BOTTOM REINFORCEMENT SHOWN ON PLAN SHALL EXTEND CONTINUOUSLY FOR THE FULL SPAN LENGTH TO THE COLUMNS OR SUPPORTS, SEE DETAIL .
- STAGGER ALL TOP AND BOTTOM REBAR PER DETAIL .
- FOR SLAB EDGE CONDITION, SEE DETAIL .
- ALL SLAB RE-ENTRANT CONDITIONS SHALL HAVE REINFORCEMENT PER DETAIL .
- WHERE HORIZONTAL CURVATURE IN TENDONS EXCEED 1/8" PROVIDE ADDITIONAL HAIRPIN REIN. @ POINT OF MAXIMUM CURVATURE, SEE DETAIL .
- ALL POST-TENSIONED TENDON ANCHORS ARE TO BE PLACED AT MID-DEPTH OF SLAB, TYPICAL THROUGHT.
- TEMP. REIN. TO BE #4@16" o/c PARALLEL TO BEAM. LAPS TO BE 17" MIN. PROVIDE STANDARD HOOKS AT ALL SLAB EDGES. THIS REINFORCEMENT MAY BE USED AS SUPPORT BARS FOR POST-TENSIONED TENDONS. MAINTAIN 1" MIN. COVER TOP AND BOTTOM FOR BARS PERPENDICULAR TO BEAMS.

POST-TENSIONING FORCE NOTATION


NOTE:

THE FOLLOWING TOTAL EFFECTIVE FORCE VALUES ARE BASED ON THE 1/2" DIA. LOW RELAXATION CABLES WITH AN EFFECTIVE DESIGN STRESS EQUAL TO 26.8 KIPS PER TENDON.

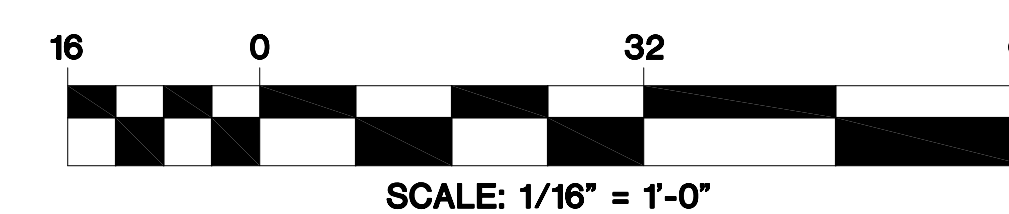
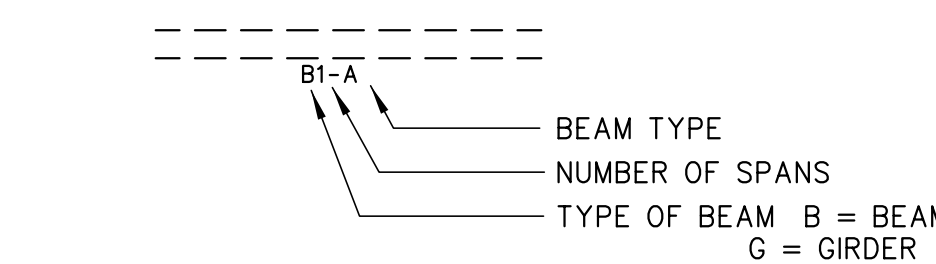
NO. OF CABLES	TOTAL FORCE	NO. OF CABLES	TOTAL FORCE
1	26.8 K	16	428.8 K
2	53.6 K	17	455.6 K
3	80.4 K	18	482.4 K
4	107.2 K	19	509.2 K
5	134.0 K	20	536.0 K
6	160.8 K	21	562.8 K
7	187.6 K	22	589.6 K
8	214.4 K	23	616.4 K
9	241.2 K	24	643.2 K
10	268.0 K	25	670.0 K
11	294.8 K	26	696.8 K
12	321.6 K	27	723.6 K
13	348.4 K	28	750.4 K
14	375.2 K	29	777.2 K
15	402.0 K	30	804.0 K

CHORD/COLLECTOR REINFORCEMENT

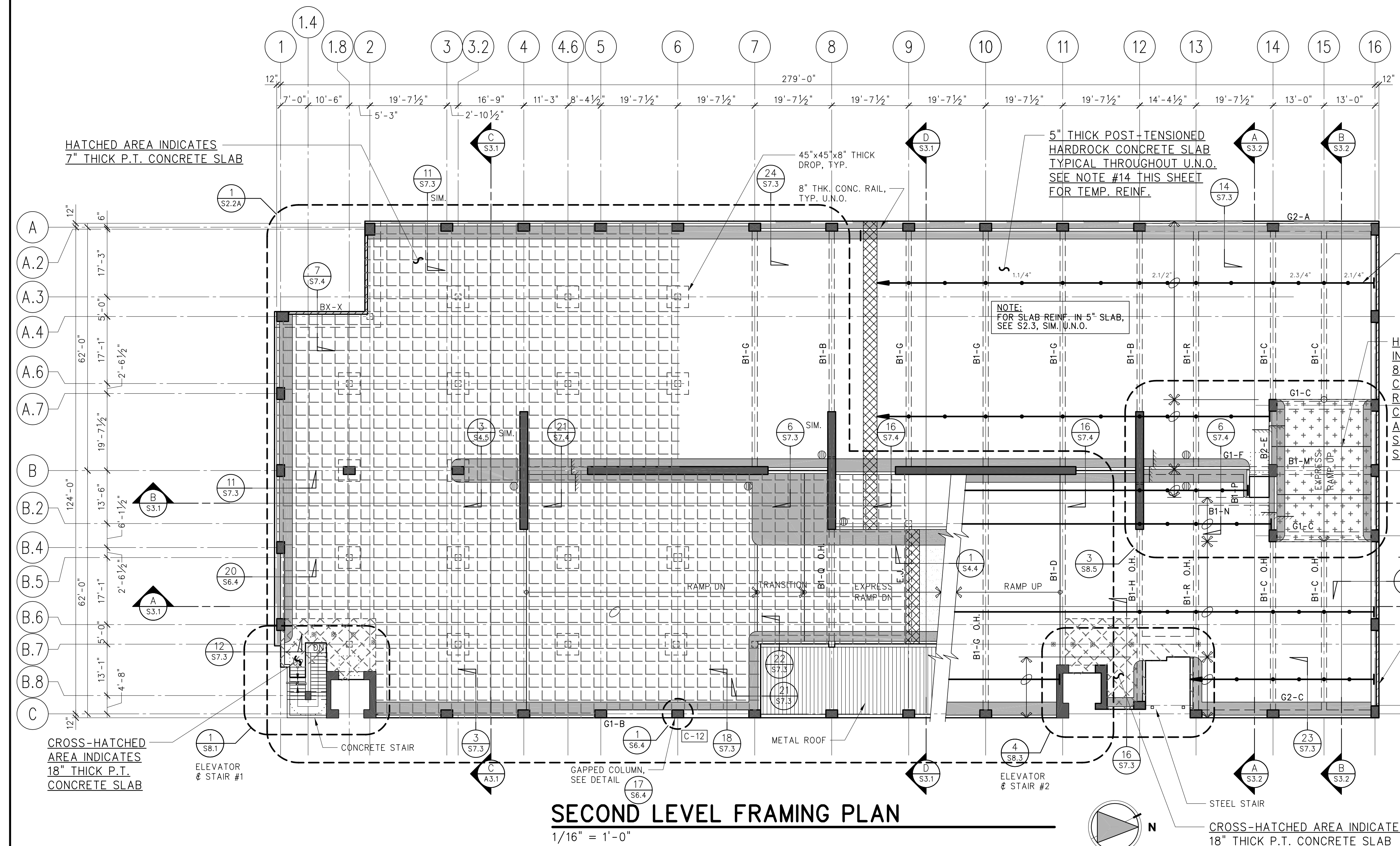
LAP SCHEDULE (2001 CBC)

BAR SIZE	MINIMUM CONCRETE THICKNESS (in)	MINIMUM CLEAR COVER (in)	MINIMUM LAP LENGTH (NORMAL WEIGHT) (in)	MINIMUM LAP LENGTH (LIGHT WEIGHT) (in)
#4	4.1/2	2	27	33
#5	4.3/4	2	33	41
#6	4.3/4	2	40	49
#7	5.1/2	2.1/4	46	58
#8	6	2.1/2	53	66
#9	7.1/4	3	59	74
#10	7.3/4	3.1/4	67	83
#11	8.1/2	3.1/2	74	92
#14	10.1/2	3	SEE NOTE #8	

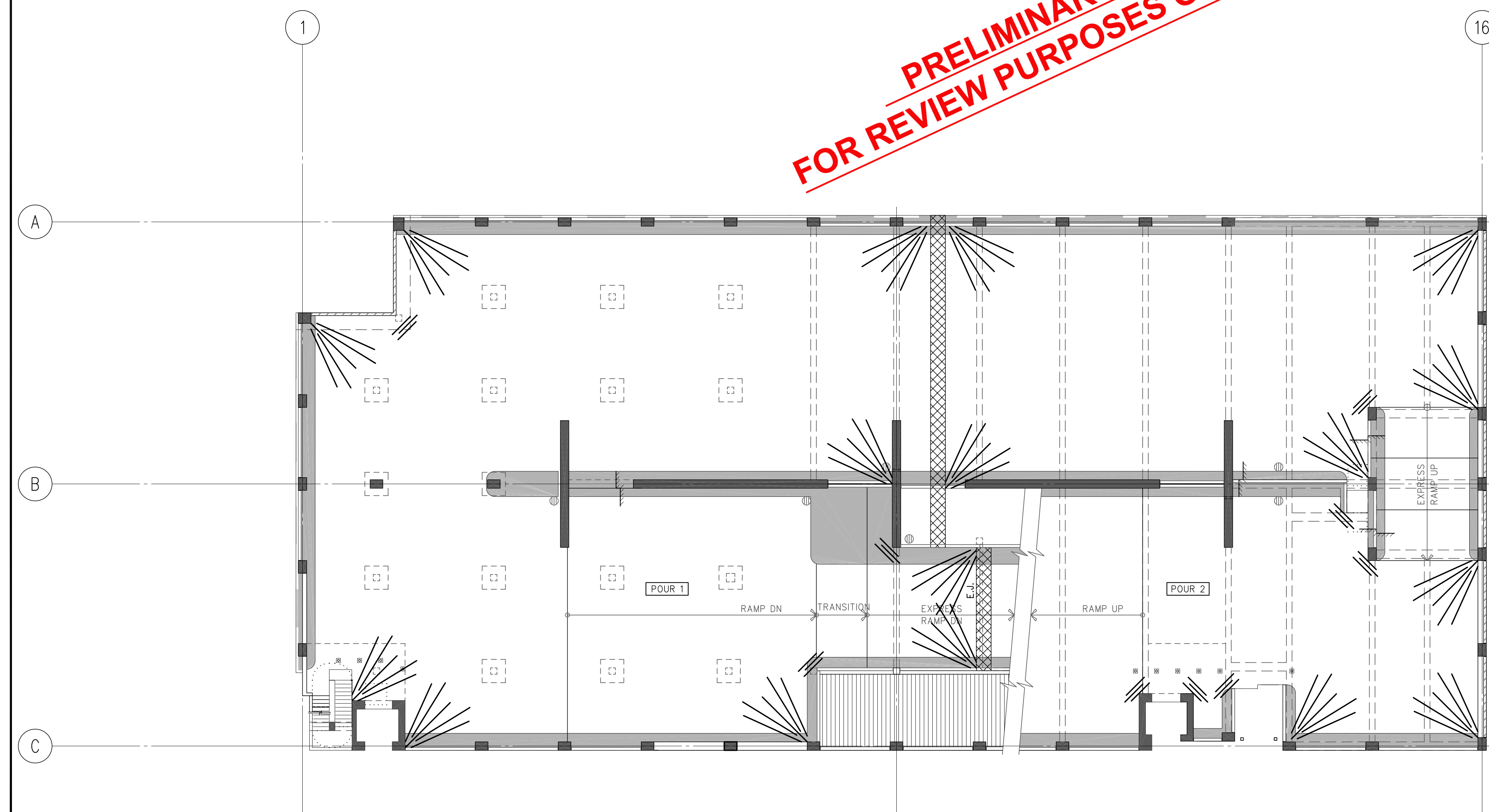
- CHORD/COLLECTOR BARS: STAGGER ALL LAP SPLICES WITH CLASS B LAP. TYP. @ ALL LEVELS.
- CHORD/COLLECTOR REINFORCEMENT LAP SCHEDULE MAY ONLY BE USED WHEN ALL CONDITIONS ARE MET:
 - REINFORCEMENT IS GRADE 60.
 - MINIMUM CONCRETE STRENGTH OF 5000 psi.
 - THERE IS LESS THAN 12" OF FRESH CONCRETE BELOW REINFORCEMENT.
 - REINFORCEMENT IS UNCOATED.
- UNLESS OTHERWISE NOTED ON PLAN, ALL SLAB CHORD/COLLECTOR BARS SHALL BE PLACED AT 8" o/c.
- THESE REBAR ARE TO BE IN ADDITION TO REINFORCEMENT SHOWN ON PLAN.
- ALL CHORD/COLLECTOR REINFORCEMENT LAP AT CLOSURE.
- ALL DIMENSIONS NOTED SHALL BE FROM GRID LINE, U.N.O.
- CHORD/COLLECTOR REIN. SHOWN TERMINATING AT EDGE OF BEAM OR SLAB SHALL TERMINATE WITH A STD. 90° HOOK MIN.
- #14 BARS MAY NOT BE LAPPED, WHERE BAR TERMINATES AT EDGE OF BEAM, USE HRC T-HEAD OR EQUAL TO REDUCE CONGESTION, A TYPE 2 COUPLER MAY BE USED TO SPLICE #14 BARS.
- CHORD/COLLECTOR REIN. SHALL NOT BE CONTINUOUS ACROSS CLOSURE STRIPS. LAP ALL REIN. WITHIN CLOSURE STRIPS PER LAP SCHEDULE.


CONCRETE BEAM NOTATION


- FOR CONCRETE BEAM & GIRDER SCHEDULE AND DETAILS SEE SHEET S6.1


SECOND LEVEL FRAMING PLAN

1/16" = 1'-0"

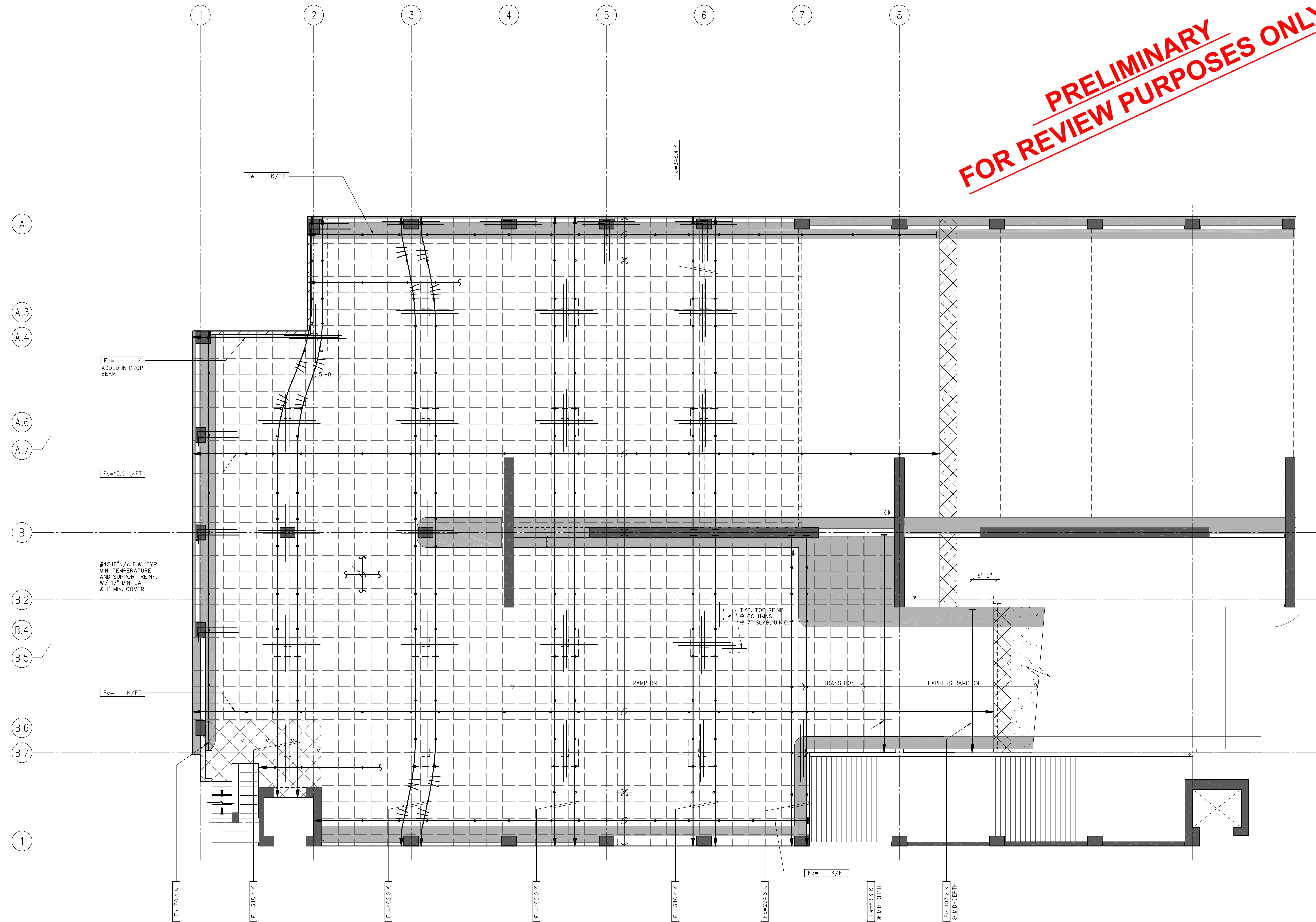
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ADDED REIN. AT SECOND LEVEL

CHORD/COLLECTOR PLAN

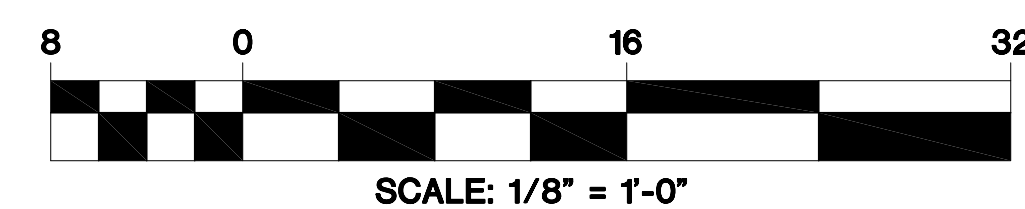
1/16" = 1'-0"

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PARTIAL PLAN
1 SECOND LEVEL FRAMING
1/8" = 1'-0"



ENLARGED PARTIAL PLAN-SECOND LEVEL

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MOUNTAIN VIEW, CALIFORNIA

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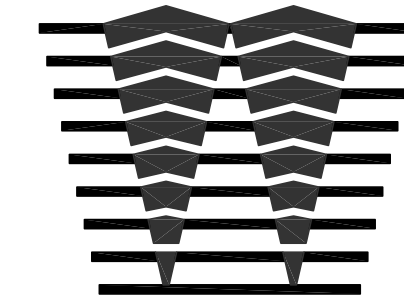
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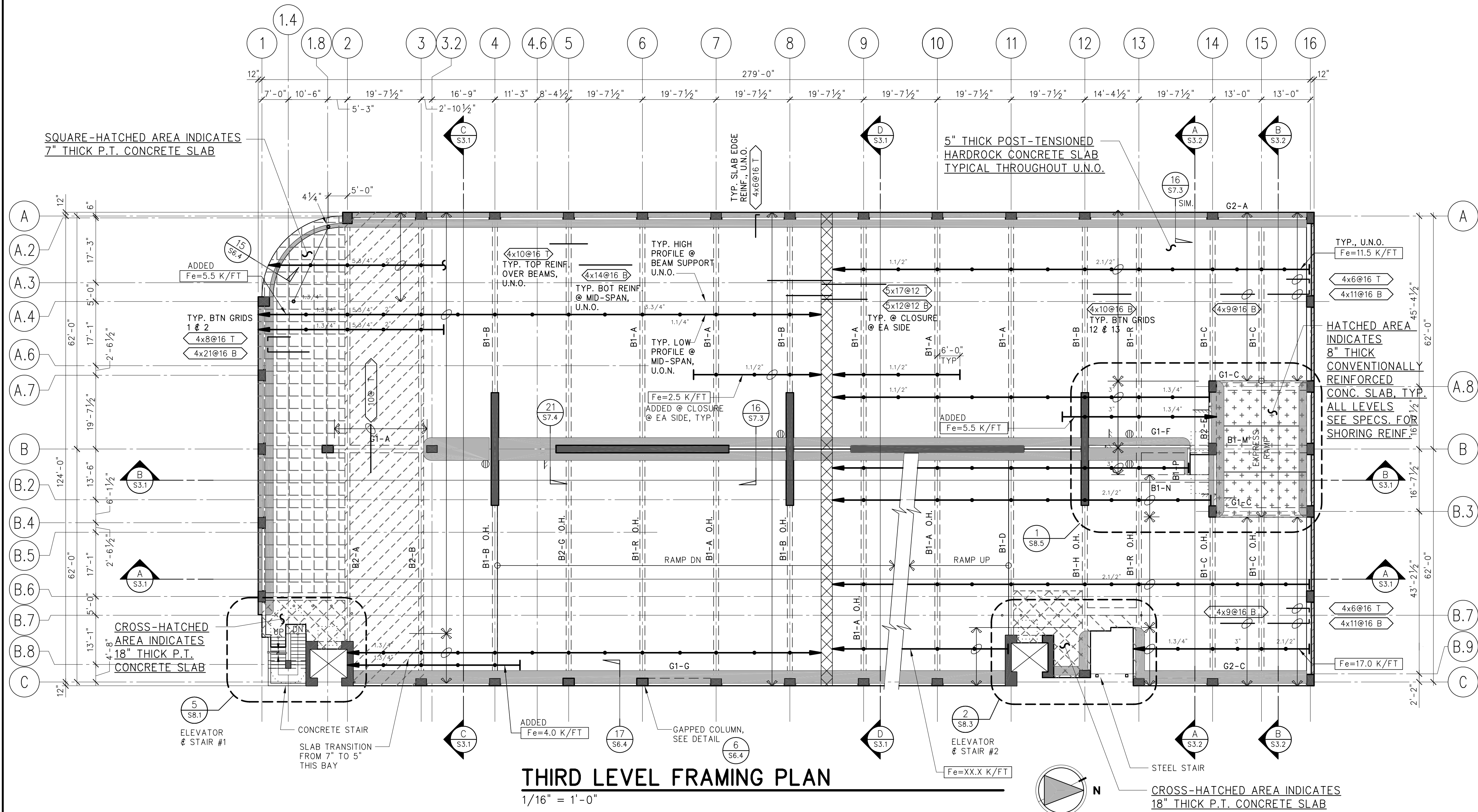
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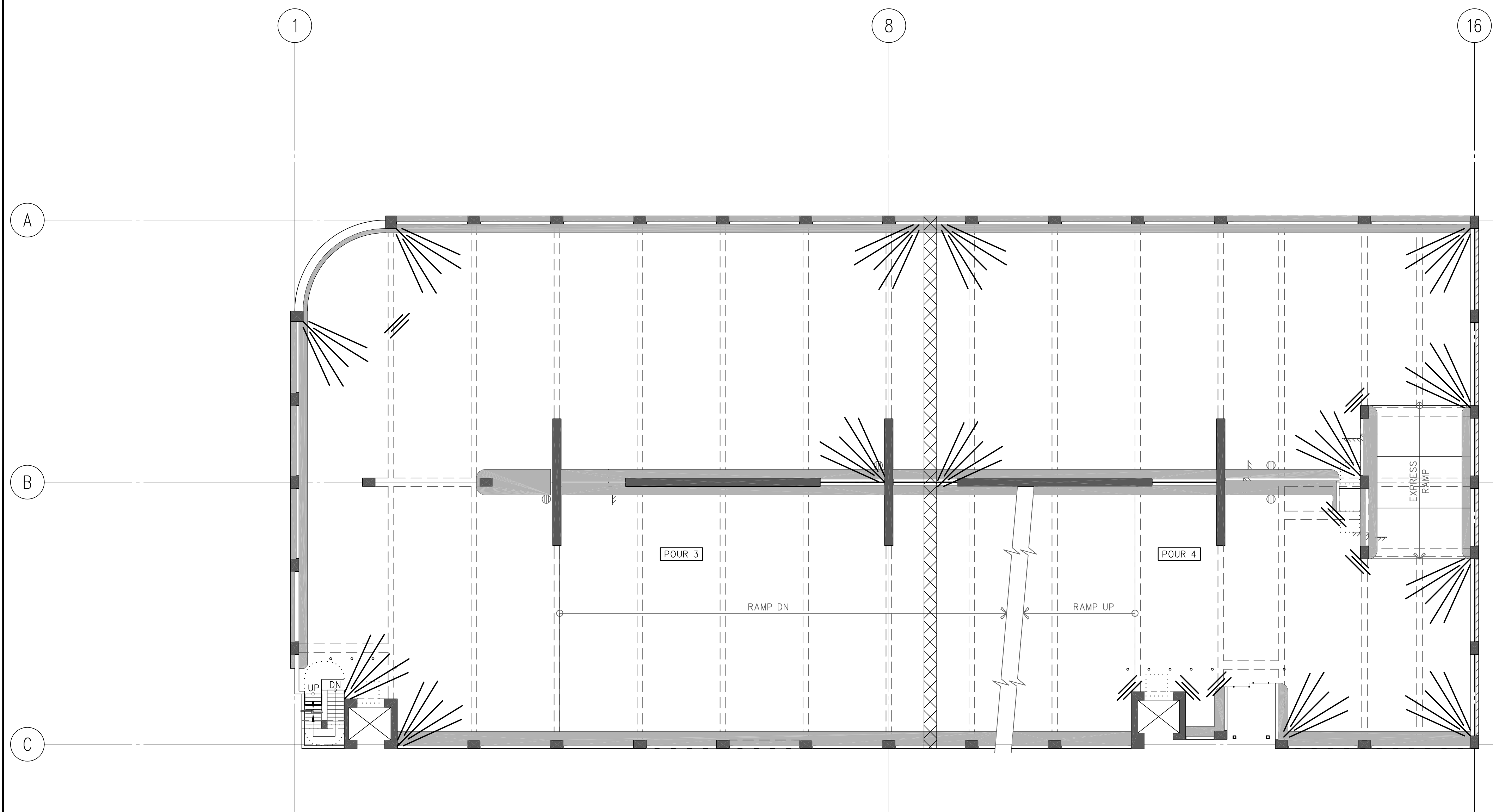
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THIRD LEVEL FRAMING PLAN

1/16" = 1'-0"



CHORD/COLLECTOR PLAN

1/16" = 1'-0"

ELEVATED SLAB NOTES

- 1. VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS.
- 2. FOR ELEVATED SLAB NOTES AND BALANCE OF INFORMATION SEE SHEET S2.2

CHORD/COLLECTOR KEY PLAN

- 1. FOR BALANCE OF INFORMATION, SEE SHEET S2.2

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THIRD LEVEL FRAMING AND CHORD/COLLECTOR PLANS

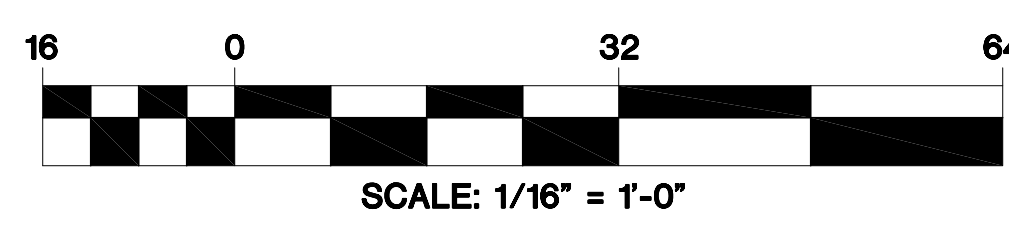
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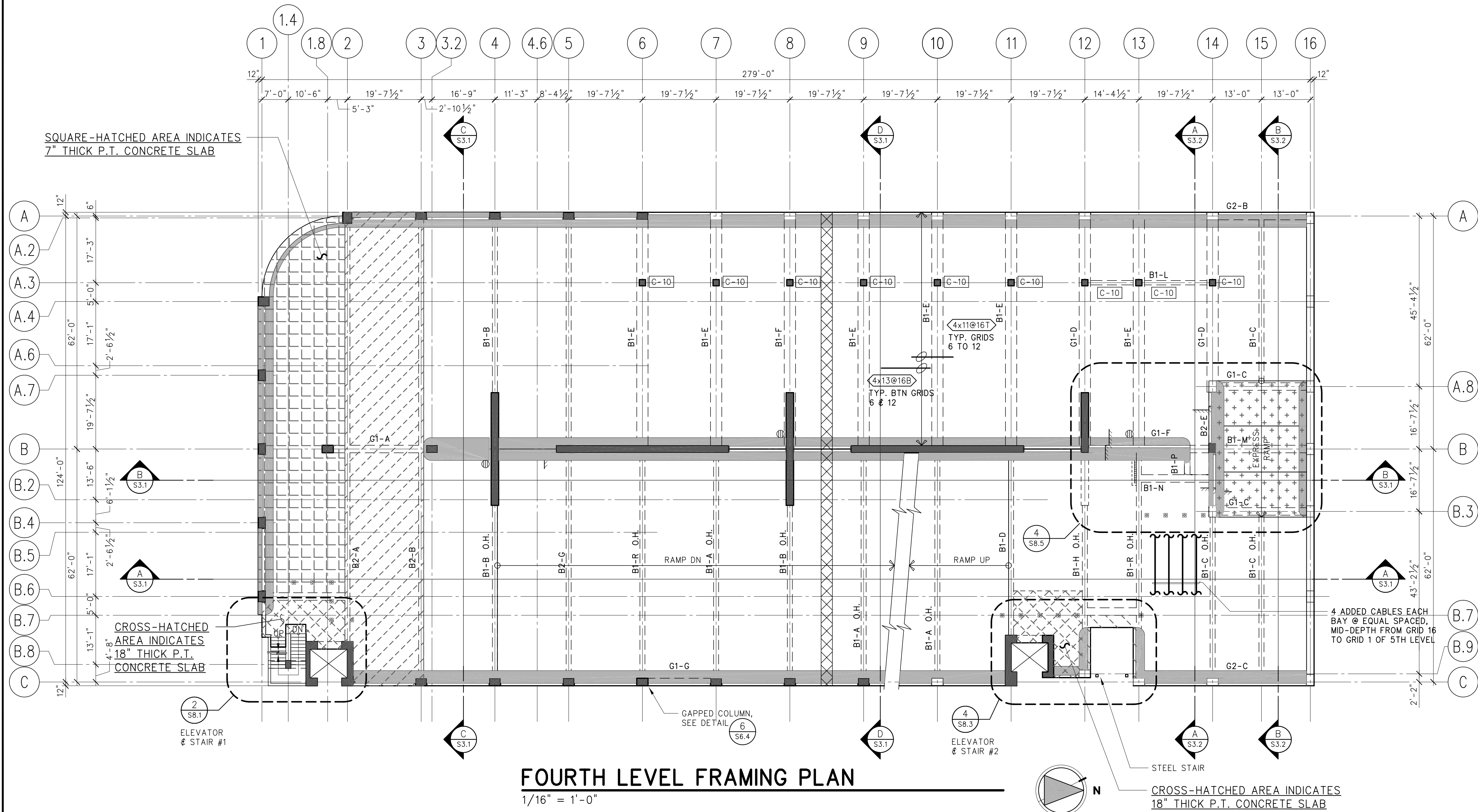
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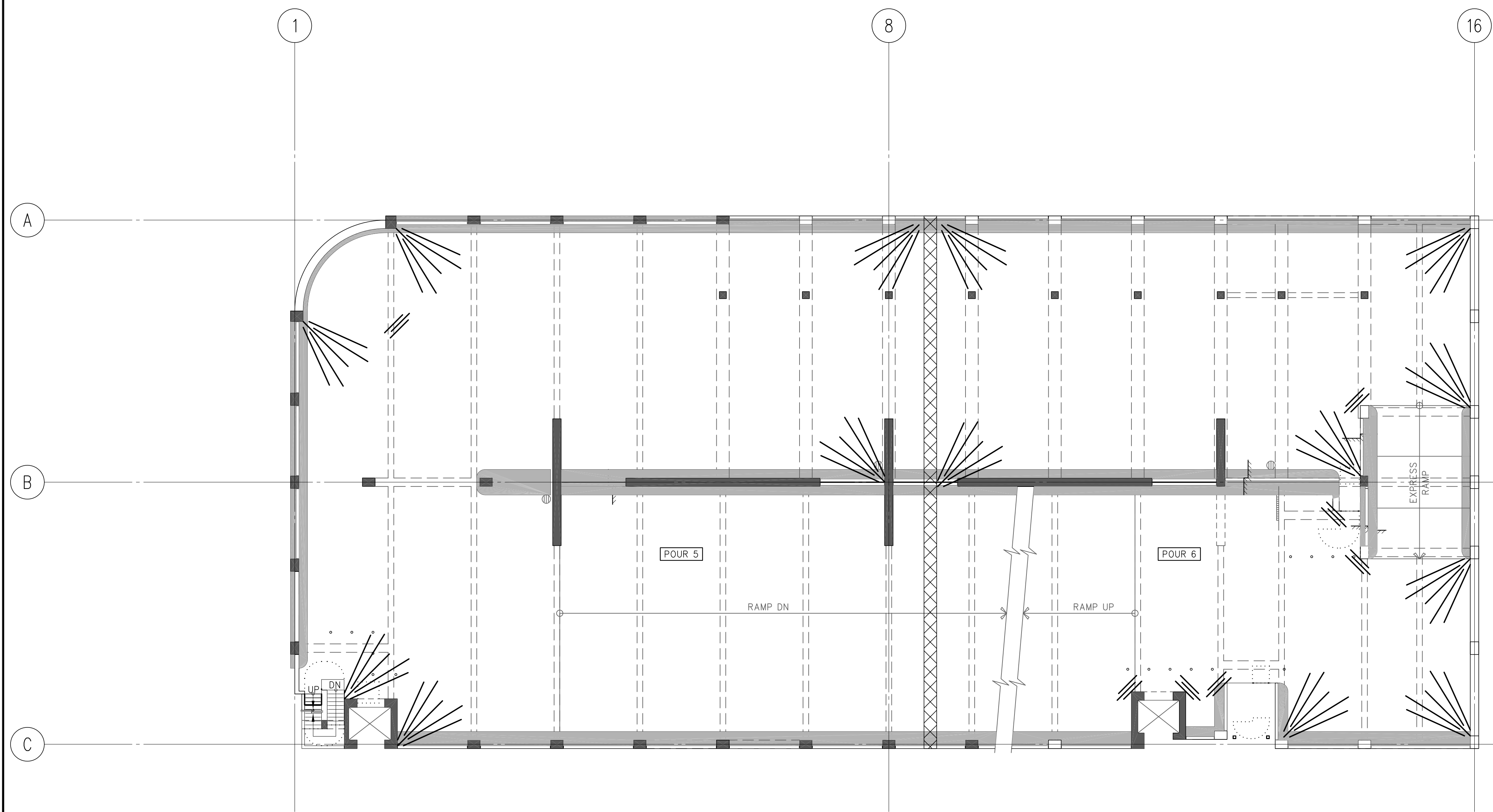
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FOURTH LEVEL FRAMING PLAN

1/16" = 1'-0"



CHORD / COLLECTOR PLAN

1/16" = 1'-0"

ELEVATED SLAB NOTES

1. VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS.
2. FOR SLAB REINFORCEMENT, SEE SHEET S2.3 SIM., U.N.O.
3. FOR ELEVATED SLAB NOTES AND BALANCE OF INFORMATION SEE SHEET S2.2

CHORD/COLLECTOR KEY PLAN

1. FOR BALANCE OF INFORMATION, SEE SHEET S2.2

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FOURTH LEVEL PARKING AND CHORD/COLLECTOR PLANS

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MOUNTAIN VIEW, CALIFORNIA

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